

## ABSTRACT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TITLE: RIBBED MODULE FOR WAVE ENERGY DISPERSION

INVENTOR: DENNIS G. SMITH

10 A ribbed module is provided having a ribbed exterior surface  
defining a plurality of grooves and channels along the surface for  
receiving water and directing the water in a direction different  
from that in which it is received to reduce wave energy. The  
module is formed as a single integral unit, or as a pair of halves  
15 having complementary mating locking elements which when engaged  
join the halves to form the ribbed module. A buoyancy system is  
also included to adjust the buoyancy of the module for positioning  
of same at a select position in the water. A plurality of modules  
are connected to provide breakwaters which reduce the effects of  
20 wave action on the shore.